



Certificate of Analysis

(Page 1 of 2)

Client : SPRAGUE ENERGY
Product : #6 Fuel Oil
Client Ref : V - 05 - 01189

Report No : 28531
SGS File No : 831454

LIMS No : 28531 - 76000

Lab No : P111502418

Sample Description : Shoretank 2, Composite UML sample. After discharge
Barge E - 11103. Sampled at Sprague Portsmouth, NH.
Sampled by SGS.

P111502418

Tested On : 8/15/2005

METHOD	TEST	RESULT	
ASTM D 4052	API Gravity @ 60F, Calc	10.7	°
ASTM D 4294	Total sulfur content	0.987	Wt-%
ASTM D 93b	Flashpoint, PMCC	196	°F
ASTM D 97	Pour Point	21	°F
ASTM D 97	Pour Point	-6	°C
ASTM D 445	Kinematic Viscosity, 122°F		
	Kinematic Viscosity, 122°F	214.4	cst
	Kinematic Viscosity, 122°F	101.50	SFS
ASTM D 1796	Water and Sediment by Centrifuge	0.250	% vol
ASTM D 482	Ash	0.0740	Wt-%
ASTM D 5762	Nitrogen by Chemiluminescence	0.36	Wt-%
D473	Sediment by Extraction	0.06	vol%
ASTM D 189	Conradson Carbon Residue	10.8	%
ASTM D 6560	Asphaltenes	4.9	Wt-%
ASTM D 95	Water by Distillation	0.250	Vol-%
D 5863 B	Sodium, MDL=1	18	ppm
D 5863 B	Vanadium, MDL=1	98	ppm
ASTM D 240	Gross Heat of Combustion	18379	Btu/lb
ASTM D 240	Gross Heat of Combustion	152307	Btu/gal

Supervisor :

Kenneth Decie

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS
REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE 08/15/2005
TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE.
THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF
ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON
A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE
CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER
PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY
BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF
MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY
SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE
AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES
THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.

Precision practices apply to the determination of above test results. Also refer to ASTM D 3244-97/02, IP 46/95 and appendix L of IP standard methods for analysis and testing for evaluation of test data to determine conformance with specifications.

Also printed: 10/15/2005

© Copyright SGS-NAOC 2004

SGS North America Inc.

Oil, Gas & Chemicals Services 324 Marginal St. Chelsea MA 02072
TEL: (617) 889-0773 FAX: (617) 889-3029